

Art Unit: ***

1-28 (Cancelled)

29. (Currently Amended) A process comprising contacting a fluid which comprises a hydrocarbon with a catalyst composition under a condition sufficient to effect the conversion of a hydrocarbon to an olefin and a C₆ to C₈ aromatic hydrocarbon wherein said catalyst composition comprises a ZSM-5 zeolite and a promoter selected from the group consisting of zinc titanate, zinc silicate, zinc borate, zinc-fluorosilicate, zinc fluorotitanate, zinc molybdate, zinc chromate, zinc tungstate, zinc zincate, zinc chromite, zinc aluminate, zinc phosphate, zinc acetate dihydrate, diethylzinc, zinc 2-ethylhexanoate, boron oxide, boric acid, boron ammonium complex, boron trichloride, boron nitride, triethyl borane, trimethyl borane, tripropyl borane, trimethyl borate, triethyl borate, tripropyl borate, trimethyl borazine, triethyl boroxine, tripropyl boroxine, and combinations of two or more thereof wherein said composition is a steam-treated composition.
30. (Original) A process according to claim 29 wherein said catalyst composition further comprises a binder having a weight ratio of said binder to zeolite in the range of from about 1:20 to about 20:1.
31. (Original) A process according to claim 29 wherein the weight ratio of promoter to zeolite is in the range of from about 0.1:1 to about 0.5:1.

Art Unit: ***

32. (Original) A process according to claim 30 wherein the weight ratio of binder to zoolite is in the range of from about 1:7 to about 5:1 and the weight ratio of promoter to zeolite is in the range of from about 0.1:1 to about 0.5:1.
33. (Cancelled).
34. (Original) A process according to claim 30 wherein said promoter is zinc titanate.
35. (Original) A process according to claim 30 wherein said promoter is zinc silicate.
36. (Original) A process according to claim 30 wherein said promoter is zinc aluminate.
37. (Cancelled).
38. (Currently Amended) A process comprising contacting a fluid which comprises at least one saturated hydrocarbon with a catalyst composition under a condition sufficient to effect the conversion of a hydrocarbon to an olefin and a C_6 to C_8 aromatic hydrocarbon wherein said catalyst composition comprises a ZSM-5 zeolite, silica, and a promoter selected from the group consisting of zinc aluminate, zinc silicate, boron oxide~~zinc titanate~~, and combinations of two or more thereof wherein the weight ratio of silica to zeolite is in the range of from about 1:7 to about 5:1; and the weight ratio of promoter to zeolite is in the range of from about 0.1:1 to about 0.5:1.
39. (Original) A process according to claim 38 wherein said promoter is zinc titanate.
40. (Original) A process according to claim 38 wherein said promoter is zinc silicate.
41. (Original) A process according to claim 38 wherein said promoter is zinc aluminate.

Claim 42 is canceled.

Art Unit: ***

42. (Original) A process according to claim 38 wherein said promoter is boron oxide.
43. (Original) A process according to claim 38 wherein said hydrocarbon is a gasoline.
44. (Currently Amended) A process comprising contacting a fluid which comprises at least one saturated hydrocarbon with a catalyst composition under a condition sufficient to convert a saturated hydrocarbon to an olefin and a C₆-C₈ aromatic hydrocarbon wherein said catalyst is produced by the steps comprising:
 - (1) combining a ZSM-5 zeolite, a binder, and a promoter selected from the group consisting of zinc aluminate, zinc titanate, zinc silicate, boron oxide, and combinations of two or more thereof, under a condition sufficient to produce a modified zeolite; and
 - (2) steaming said modified zeolite.
45. (Original) A process according to claim 44 wherein said promoter is zinc aluminate.
46. (Original) A process according to claim 44 wherein said promoter is zinc titanate.
47. (Original) A process according to claim 44 wherein said promoter is zinc silicate.
48. (Canceled).
49. (Original) A process according to claim 44 wherein said hydrocarbon mixture comprises gasolines from catalytic oil cracking processes, pyrolysis gasolines, naphthas, gas oils, reformates, and combinations of any two or more thereof.
50. (Original) A process according to claim 49 wherein said hydrocarbon mixture is gasoline.

Art Unit: ***

51. (Original) A process according to claim 50 wherein said promoter is zinc titanate.
52. (Original) A process according to claim 50 wherein said promoter is zinc silicate.
53. (Original) A process according to claim 50 wherein said promoter is zinc aluminate.
54. (Cancelled).
55. (New) The process of claim 29, wherein the promoter further comprises one or more compounds selected from the group consisting of zinc borate, zinc fluorosilicate, zinc fluorotitanate, zinc molybdate, zinc chromate, zinc tungstate, zinc zirconate, zinc chromite, zinc phosphate, zinc acetate dihydrate, diethylzinc, zinc 2-ethylhexanoate, boron oxide, boric acid, borane-ammonium complex, boron trichloride, boron nitride, triethyl borane, trimethyl borane, tripropyl borane, trimethyl borate, triethyl borate, tripropyl borate, trimethyl boroxine, triethyl boroxine, tripropyl boroxine, and combinations of two or more thereof.